

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

November 20, 2013

WELL WORK PERMIT Re-Work

This permit, API Well Number: 47-3906354, issued to RAVEN RIDGE ENERGY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: WHITE #1A

Farm Name: TEX SEABOLT

API Well Number: 47-3906354

Permit Type: Re-Work
Date Issued: 11/20/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 2. Well work activities shall not constitute a hazard to the safety of persons.

WW - 2B (Rev. 8/10)

Depths Set

39-6354

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operato	r: RAVE	N RIDGI	E ENERGY, LLC	494485865	KANAWHA -39	BIG SANDY - 01	BLUE CREEK - 258
			TOTAL AND STREET	_ Operator ID	County	District	Quadrangle
2) Operator's Well Number: WHITE 1A 3) Elevation: 839'							
4) Well Type: (a	ı) Oil <u>X</u>	or Ga	ıs_X				
(b) If Gas: Production X / Underground Storage							
	Deep/ Shallow X						
5) Proposed Target Formation(s): WEIR Proposed Target Depth: 2,100' 6) Proposed Total Depth: 2,400' Feet Formation at Proposed Total Depth: 2,000' - 2,400' 7) Approximate fresh water strata depths: 150' 8) Approximate salt water depths: 1,100' - 1,600'							
9) Approximate	coal sea	m depths	S: NO COAL LISTI	ED ON TITLE			
10) Approximate	e void de	pths,(coa	al, Karst, other):	NONE			
11) Does land o	ontain co	al seam	s tributary to acti	ve mine? N	10		
12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed) RUN 4 1/2" CASING, STIMULATE AND FRAC (ACID & WATER) AN EXISTING WELL							
					Au	up w 1	Ma
10-4-13							
13) <u>CASING AND TUBING PROGRAM</u> TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT							
	Size	Grade	Weight per ft	For Drilling		Fill -up (Cu.	
Conductor							
Fresh Water	9 5/8"	LS	17LBS	350'	EXISTING	CTS	
Coal							
Intermediate	7"	J55	23LBS	1,850'	EXISTING	CTS	
Production	4 1/2"	J55	10.5LBS	2200'	2200'	150 Sa	cks
Tubing							
Liners							
Packers: Kind: Sizes:							

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Office of Oil and Gas



WW-2A (Rev. 6-07)

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1). Date:

OCTOBER 4, 2013

\$ 2200.00 4 PRIMITS

WV Department of Environmental Protection 2.) Operator's Well Number State

County

Permit

3.) API Well No.:

47-

- 6354

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Ow	ner(s) to be served	:	5) (a) Coal Operator
(a) Name	TEX SEABOLT		Name
Address	669 JORDAN CREEK RO	AD	Address
	ELKVIEW, WV 25071		
(b) Name		7,000	(b) Coal Owner(s) with Declaration
Address	-		Name
			Address
(c) Name			Name
Address		//	Address
		1/41	
Inspector	TERRY URBAN	HUI	(c) Coal Lessee with Declaration
Address	PO BOX 1207		Name
	CLENDENIN, WV 25045		Address
Telephone	(304) 549-5915		
	TO THE	PERSONS NAI	MED ABOVE TAKE NOTICE THAT:
Included is the	ne lease or leases or	other continuing	contract or contracts by which I hold the right to extract oil and gas
<u>OR</u>			
Included is the	ne information require	ed by Chapter 22	2, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
r certify t	nat as required unde	er Chapter 22-6	of the West Virginia Code I have served copies of this notice and ents pages 1 through on the above named parties by:
application, a loc	Personal Servi	ce (Affidavit attac	ched)
-			tal receipt attached)
· ·		tice of Publicatio	
I have re			d 35 CSR 4, and I agree to the terms and conditions of any permit
issued under this	application.		
I certify t	under penalty of law	that I have person	sonally examined and am familiar with the information submitted on
this application for	orm and all attachme	ents, and that ba	ased on my inquiry of those individuals immediately responsible for
obtaining the into	rmation, I believe that	it the information	n is true, accurate and complete. s for submitting false information, including the possibility of fine and
imprisonment.	ile tilat tilete ale sigi	illicant penalties	s for submitting raise information, including the possibility of fine and
		Well Operator	RAVEN RIDGE ENERGY, LLC
mmm	FFICIAL SEAL	By:	RYAN CUNNINGHAM
NO.	TARY PUBLIC 5	Its:	OFFICER
	OF WEST VIRGINIA JELLE N. BAYS	Address	3230 PENNSYLVANIA AVENUE
a con December	ngham Energy, LLC Avenue, Charleston, WV 25302		CHARLESTON, WV 25302
Ay Commissio	n Expires February 10, 2015 Worn before me this	Telephone	(304) 344-9291
~ Subscribed and s	worn before me this	姚 day of	OCTOBER , 2013
(Much.	1 Marie		Notary Public
My Commission I	Expires	OF CILLS	Notary Public
Oil and Gas Privacy		1,01,00	

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

Operator's Well Number WHITE 1A

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/Page IRENE RUNYON CUNNINGHAM ENERGY, LLC 1/8 261/287 SEE ATTACHED AGREEMENT

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired from the appr opriate aut hority before the affected activity is initiated.

Well Operator:

RAVEN RIDGE ENERGY, LLC

By: Its:

OFFICER

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WV Dept. of Environmental Protection

3906354R

AGREEMENT

This agreement is made and entered into this 16th day of February, 2012 by and between Cunningham Energy, LLC, a West Virginia limited liability company and Raven Ridge Energy, LLC, a West Virginia limited liability company.

This agreement gives permission to Raven Ridge Energy to operate any leases (owned property or otherwise leased) maintained by Cunningham Energy, LLC for any and all past, current or future projects to be developed by or for Cunningham Energy, LLC.

CUNNINGHAM ENERGY, LLC

Owner

RAVEN RIDGE ENERGY

Officer

State of West Virginia County of Kanawha

The foregoing instrument was acknowledged before me this 16th day of February, 2012 by Ryan E. M. Cunningham, Officer of Raven Ridge Energy, LLC., a West Virginia Limited Liability Company, on behalf of the company.



Notary Public

My Commission Expires

State of West Virginia County of Kanawha

The foregoing instrument was acknowledged before me this 16th day of February, 2012 by Ryan E. IVI. Cunningham, Owner of Cunningham Energy, LLC., a West Virginia Limited Liability Company, on behalf of the company.

OFFICIAL SEAL

NOTARY PUBLIC
STATE OF VEST VINCINA
DANIELLE N. BAYS
Consingtion Energy, LLC

2230 Peanwhenta August, Chainteign, WY 28302
157 Connelston Parlos Fabrany 10, 2016

Notary Public

2 10 2015 My Commission Expires

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Office of Oil and Gas

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Office of Oil and Gas

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Office of Oil and Gas

WW-9 Office of Oil and Gas (5/13)

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API Number 47 - 39	-06354		
Operator's Well	No. WHITE 1a		

NOV 2 0 2013

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION WV Department of Office of Oil and Gas Environmental Protection

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name RAVEN RIDGE ENERGY, LLC OP Code 494485865
Watershed (HUC 10) TRIBUTARY OF JORDAN CREEK Quadrangle BLUE CREEK
Elevation 839' County KANAWHA District BIG SANDY
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used for drill cuttings? Yes No If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes X No If so, what ml.? 30 mil.xx
Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain
Will closed loop system be used? N/A
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR, FRESH WATER
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium? SOAP
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LANDFILL
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) LIME
-Landfill or offsite name/permit number? CHARLESTON LANDFILL
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature
Company Official (Typed Name) RYAN E. M. CUNNIGHAM
Company Official Title_OFFICER
Subscribed and sworn before me this 4th day of OCTOBER , 20 13
Notary Public Motary Public
My commission expires 02/10/2015 OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIPIGHIA DANIELLE N, BAY'S Cunningtem Energy, LLC 3200 Pennsylvania Avanua, Charleston, WV 25302 My Commission Expires February 10, 2015

WW-9 (5/13)

	Pa	ige	of
API Number 47 -	39	-06354	
Operator's	Well No.	WHITE 1a	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

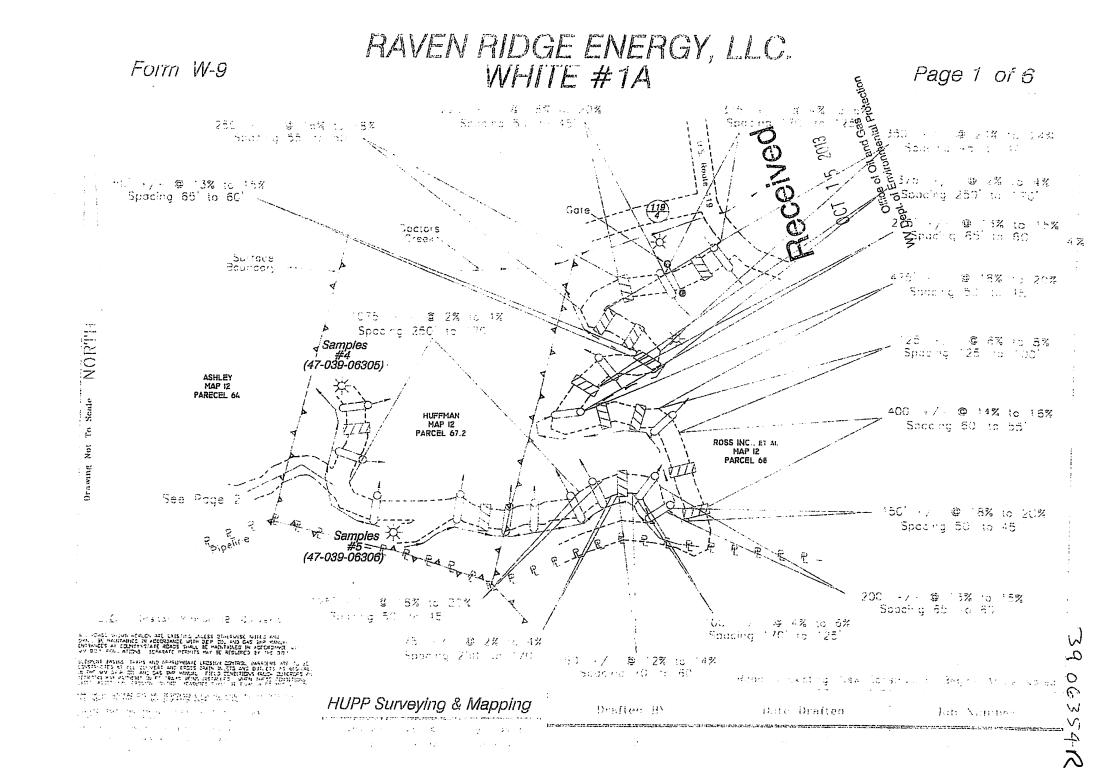
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Will closed loop system be used? N/A
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR, FRESH WATER
-If oil based, what type? Synthetic, petroleum, etc.
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Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LANDFILL
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Company Official (Typed Name) RYAN E. M. CUNNIGHAM
Company Official Title OFFICER
Subscribed and sworn before me this 4th day of OCTOBER , 20 13
My commission expires 02/10/2015

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Office of Oil and Gas WV Dept. of Environmental Protection



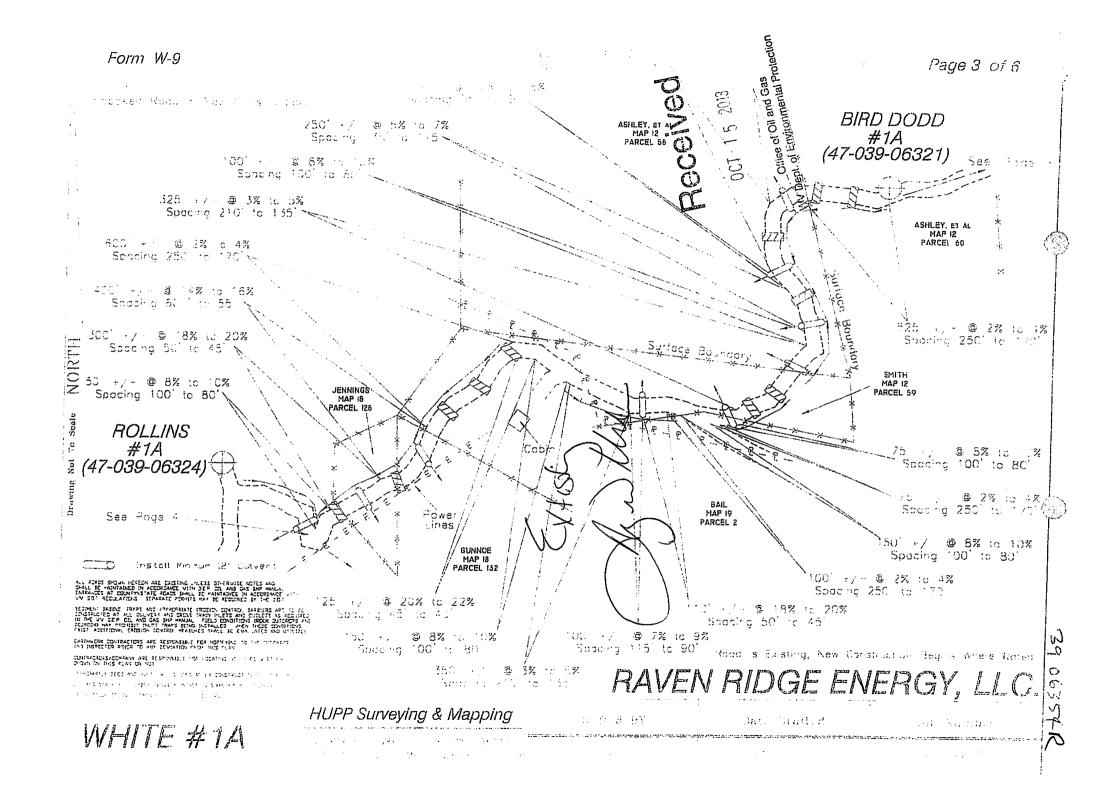
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N. N. RAVEN RIDGE ENERGY, LLC. Form W-9 WHITE #1A 50 -7 \$ 12% to 14% Spacing 70 to 60 25 - - / - 遵 7第 点 4图 100 -7- \$ 4% 6 6% Spocine 250 to Spacing 170 to 125 ASHLEY 50 +/+ @ 8% to 10% Spacing 50 75 MAP 12 Spacing 100' to 80' PARECEL 64 Samples *\ #'4 (47-039-06305) 350 ·/ 8 2% to 4% Spacina 250 to 170" 450' +/- @ 4% to 6% Spacina 170 16 125 HUFFMAN MAP 12 PARCEL 57 2 175 4/- \$ 10% to 12% Spacing 80' to 70 Bird Dodd #1A - See Page 1 (47-039-06321) Samples #5 (47)-039-06306) ASHLEY, ET AL Install Mormon 12: Colvent MAP 12 PARCEL 60 ALL GRADS SHOWN HEREON ARE EXISTING UNLESS DIFFERURE HOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH DEF DIL AND GAS BMF MANUAL ENTRANCES AT CEUNITY-STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WYD DIT REGULATIONS. SEPARATE PERMITS WAY BE REQUIRED BY THE DIT DYE MAP 12 Surface & Lease Boundary PARCEL 6 SEDIMENT BASINS TRAPS AND APPROPRIATE ERISION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS BRAIN INLETS AND CUTLETS AS RECURRED IN THE VV DEP OIL AND GAS BAY MANUAL FIELD CONDITIONS GROOK CUTCAGES AND SERROCKY WAY PORTHER INLET TRAPS BEING INSTALLED WHEN HERE CONDITIONS EXIST, ADDITIONAL ERISSION CONTROL MEASURES SHALL BE EVALUATED AND UTILITY. EARTHWORK CONTRACTERS ARE RESPONSIBLE FOR NOTHING TO THE CHERALIDS AND INSPECTOR PRIOR TO ANY CENTATION FROM DIS PLAN Rode & Existing CBNIRACIORS/CONPANO ARE RESPONSIBLE FOR CODA INC. -TERPOPARE Y SEED AND MI CHIEF I IN GRES NO ER CONITRIDADA DE LIDE DOS BUT MOST STACK A COMMEN ABOVE 5 INCHES TO GRANTIER WIS THICKER 3741 HOLD BOOK THOO BOOK THO STORES Propriet Existing the divinish reprinted to HUPP Surveying & Mapping Date Drafted

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RAVEN RIDGE ENERGY, LLC. WHITE #1A

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FOR BAT GRANTSVILLE, WV 26147	***************************************	NEW CO
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Date Drafted: 08/14/12

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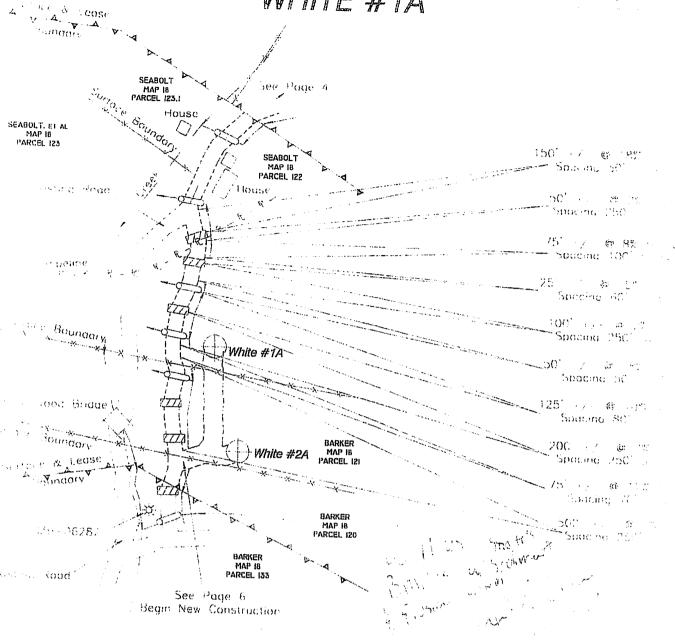
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RAVEN RIDGE ENERGY, LLC. WHITE #1A

Page 5 of 6



install Minimum 12" Culvert

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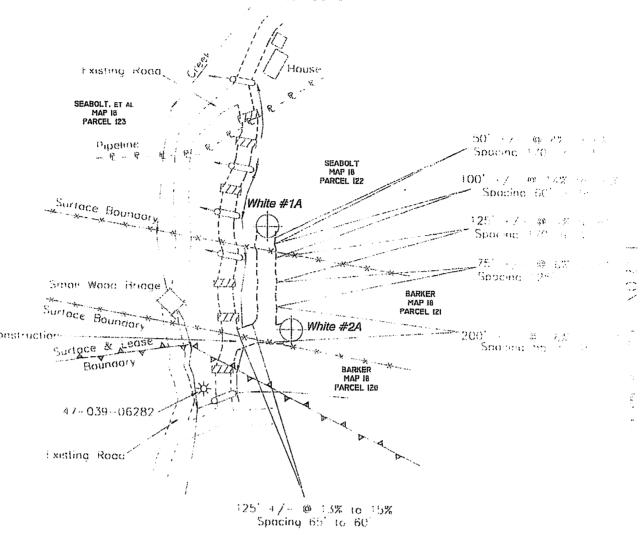
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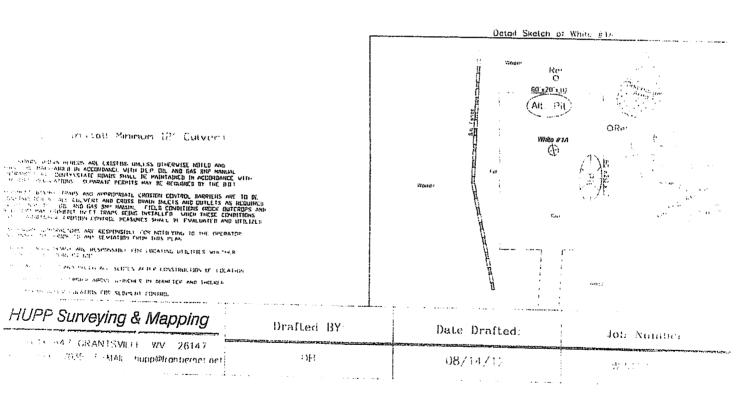
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Office of Oil and Gas WV Dept. of Environmental Protection

RAVEN RIDGE ENERGY, LLC. WHITE #1A

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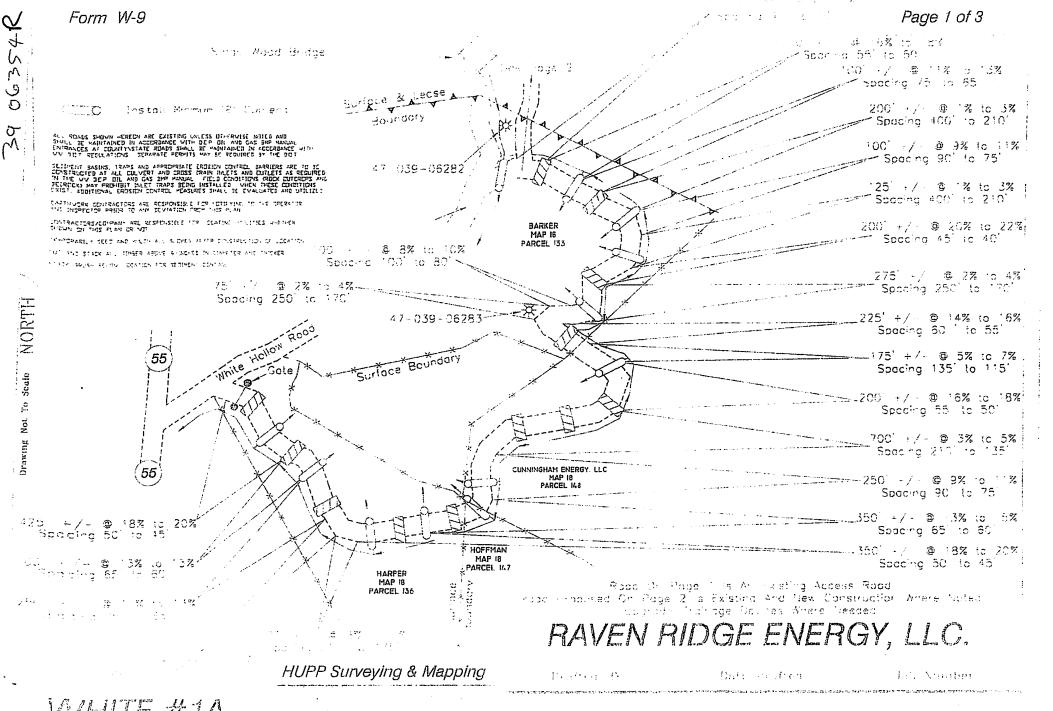


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WV Dept. of Environmental Protection

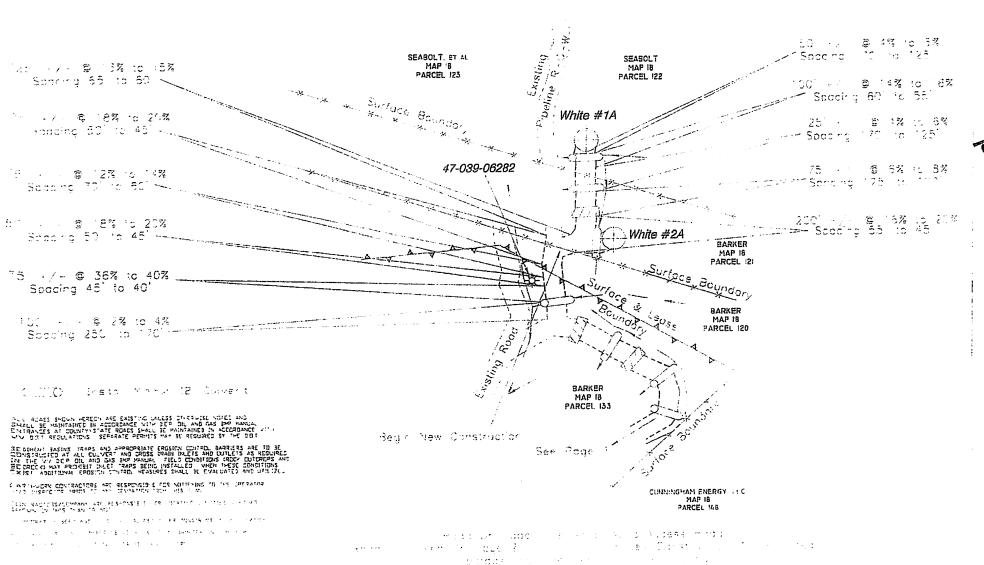
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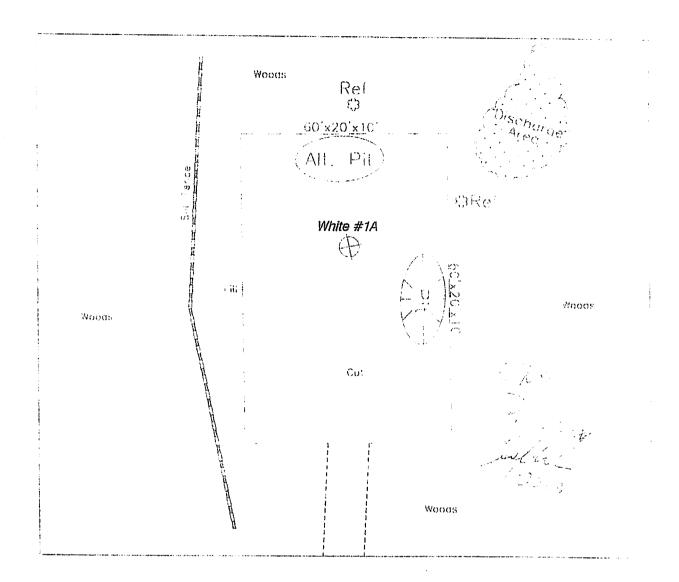
Page 2 of 3



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RAVEN RIDGE ENERGY, LLC. Page 3 of 3 WHITE #1A



Install Minimum 12" Culvert

CARTHMORIC CONTRACTORS ARE RESPONSIBLE OUR RELITETING TO THE OPERATION AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PEAK.

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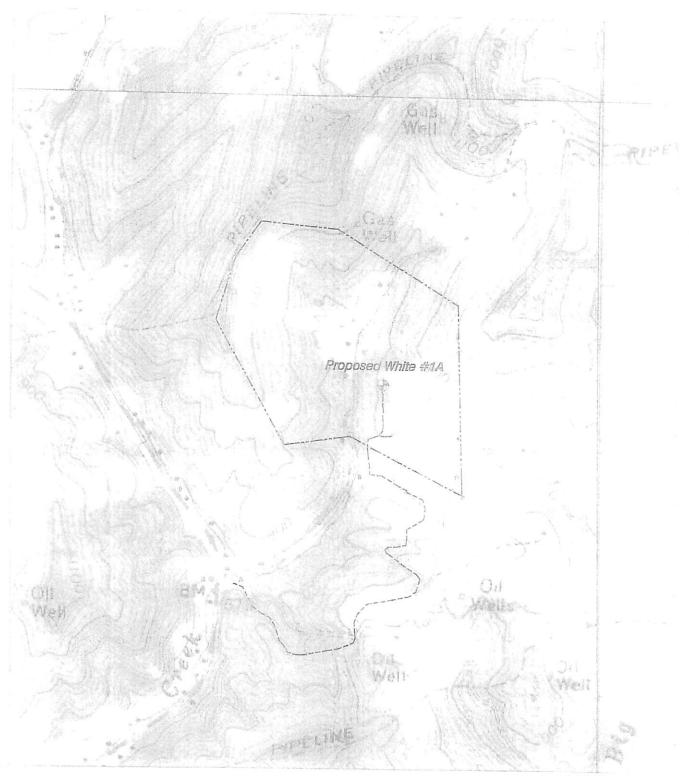
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Form W-9 Raven Ridge Energy, LLC. White #1A

Page 1 of



HUPP Surveying & Mapping

BOX 647 GRANTSVILLE, WV 26147 103/354 7034 - MAR: hupp@frontiernet.m

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